



**PhycoTerra<sup>®</sup> ST**

## **Corn Trial Data**

**UAS**

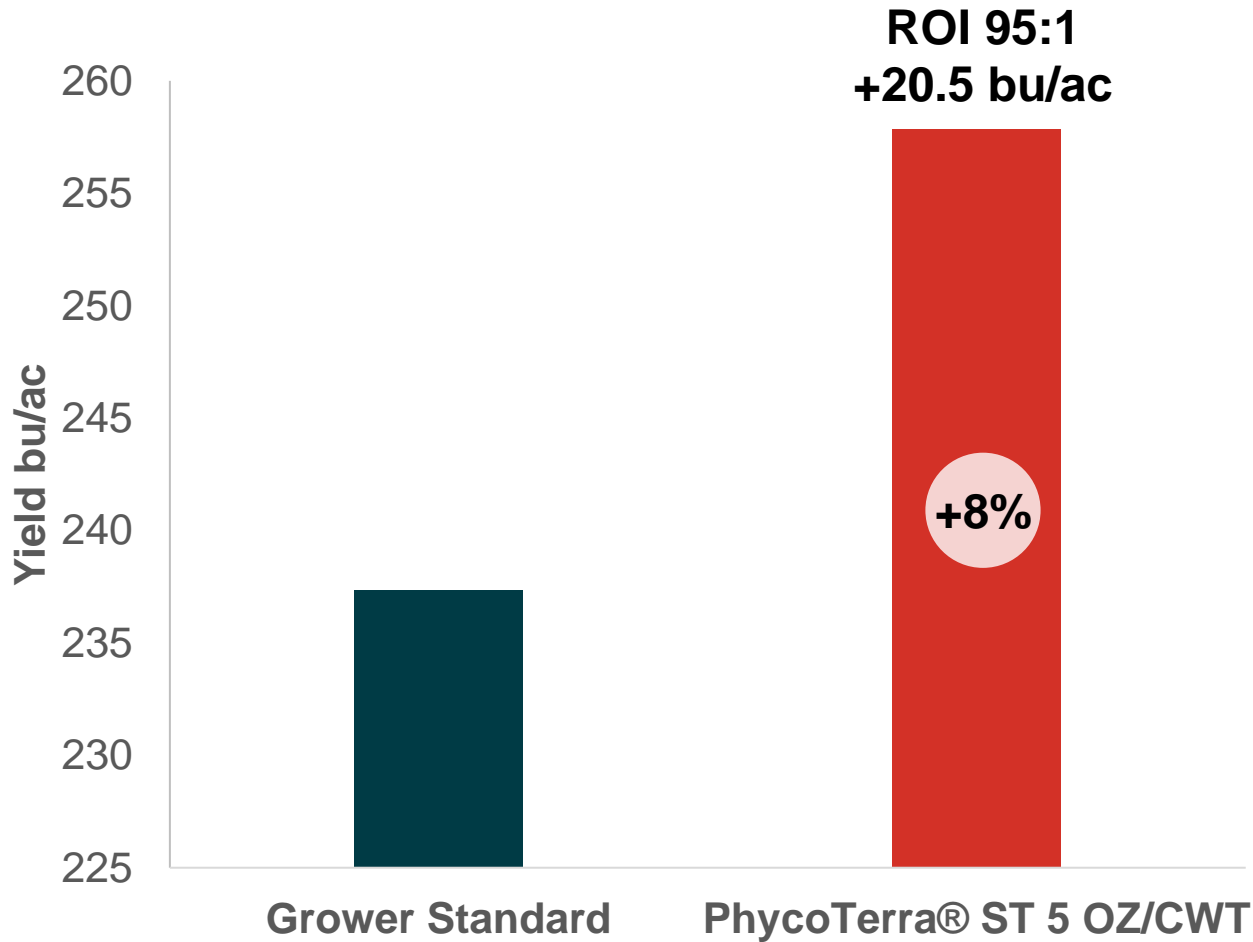
Unified Ag Solutions





# Corn – Trial 1

Trial Location: *Sibley, IL*



**SOIL TYPE:**

Silt loam

**APPLICATION RATE:**

PhycoTerra® ST (5 oz/CWT)

**ORGANIC MATTER:**

4%

**APPLICATION TIMING:**

At planting

**VARIETY:**

W7338; W7198; W7888

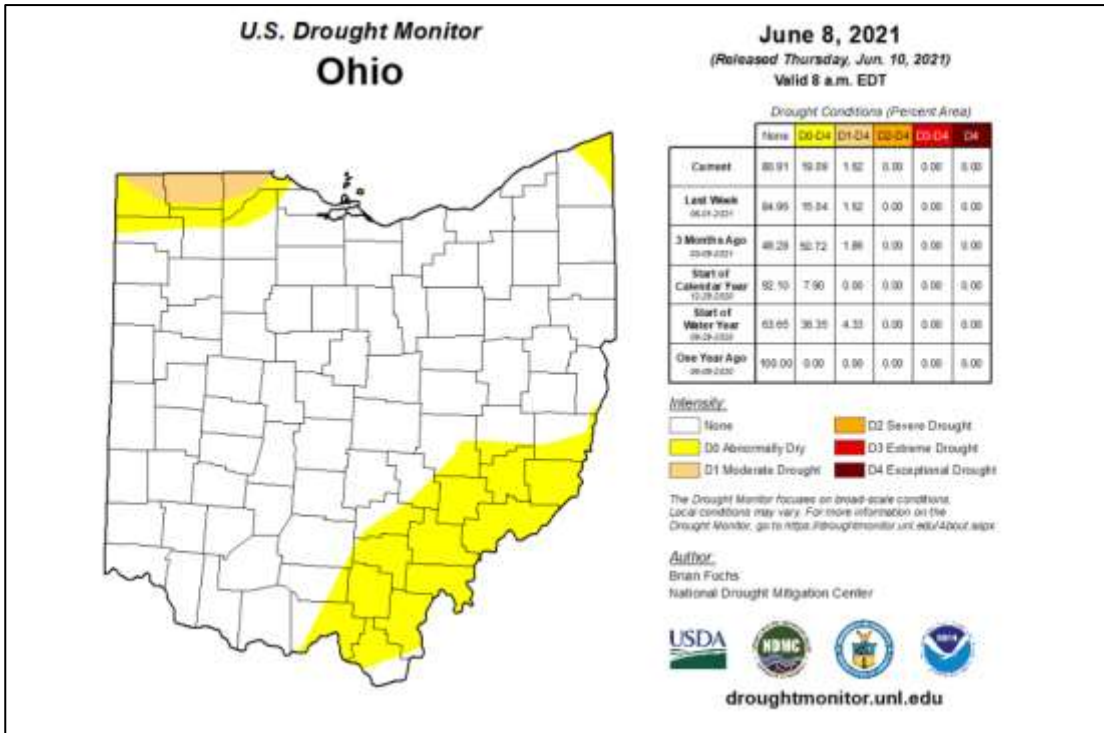
**TRIAL INFO:**

Grower Trial – Strip Design

**PLANTING/HARVEST INFO:**

April 2021 – October 2021

## Drought Severity



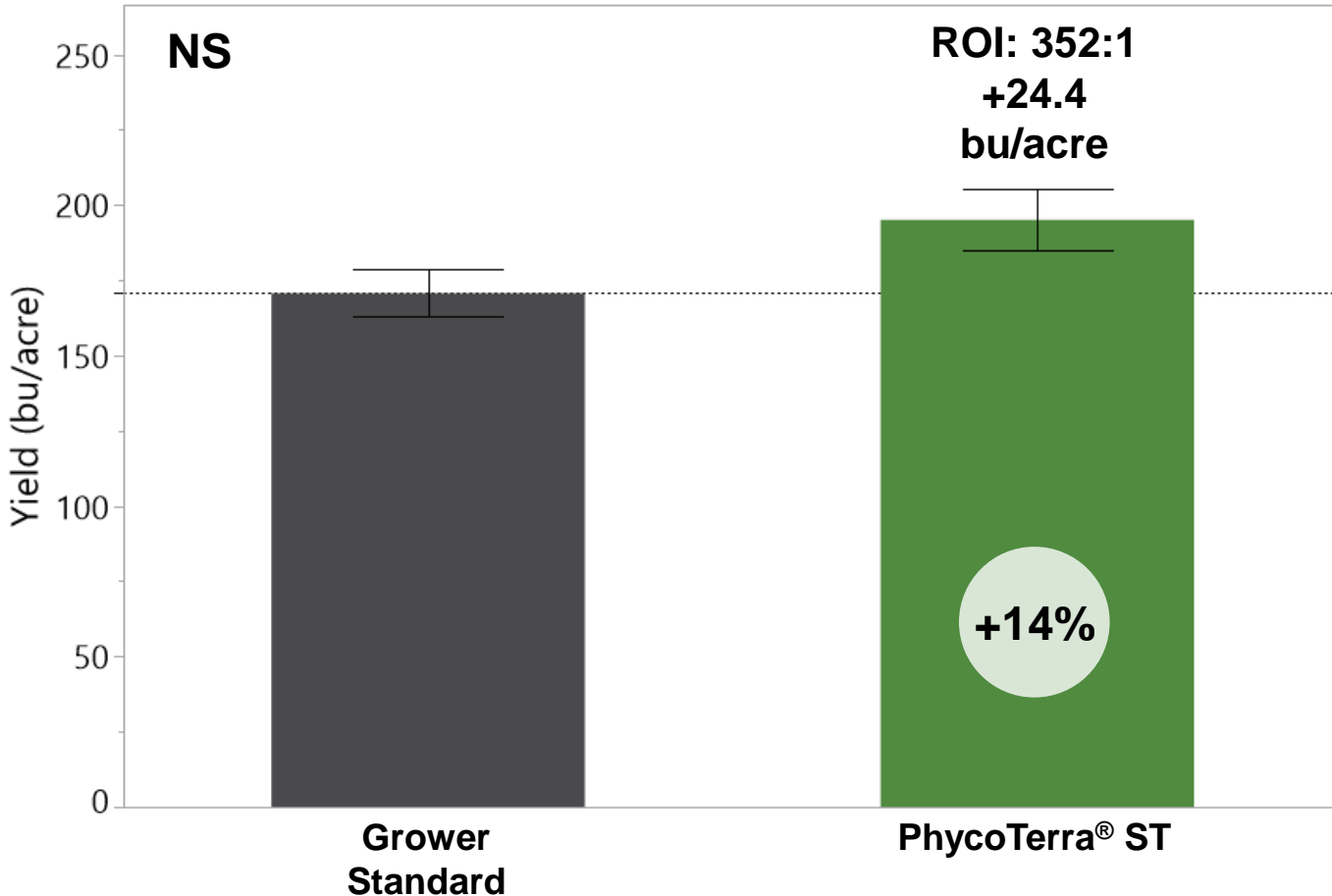
## Rainfall Surplus





# Corn

Trial Location: **Milford Center, Ohio**



### SOIL TYPE:

Silt Loam

### ORGANIC MATTER:

2.9%

### VARIETY:

Pioneer P0843AM

### TRIAL INFO:

3<sup>rd</sup> Party CRO

### PLANTING/HARVEST INFO:

May-October 2021

### APPLICATION RATE:

PhycoTerra<sup>®</sup> ST (2 fl oz/CWT)

### APPLICATION TIMING:

PhycoTerra<sup>®</sup> ST applied on top of standard seed treatment

\*Error bars represent 90% Confidence Interval, Significance tested using LSMeans Dunnett ( $\alpha=0.1$ )



**Win Rate: 67%**  
**Average ROI When Won: 121:1**  
**Rate: 1 fl oz/CWT**

vs. Grower Standard	Difference	Percent Change
Yield (bu/acre)	+7.0	+3.9%

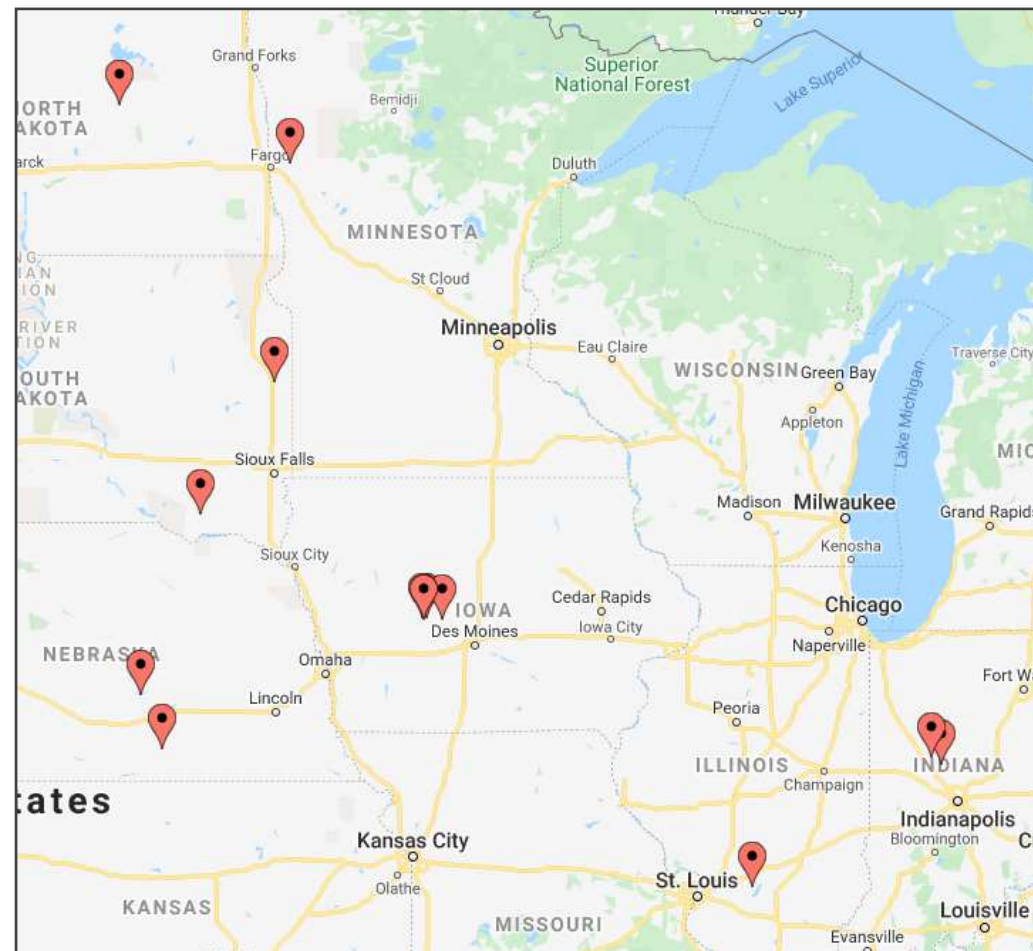




# PhycoTerra<sup>®</sup> *ST* Corn

**Win Rate: 42%**  
**Average ROI When Won: 13:1**  
**Rate: 5 fl oz/CWT**

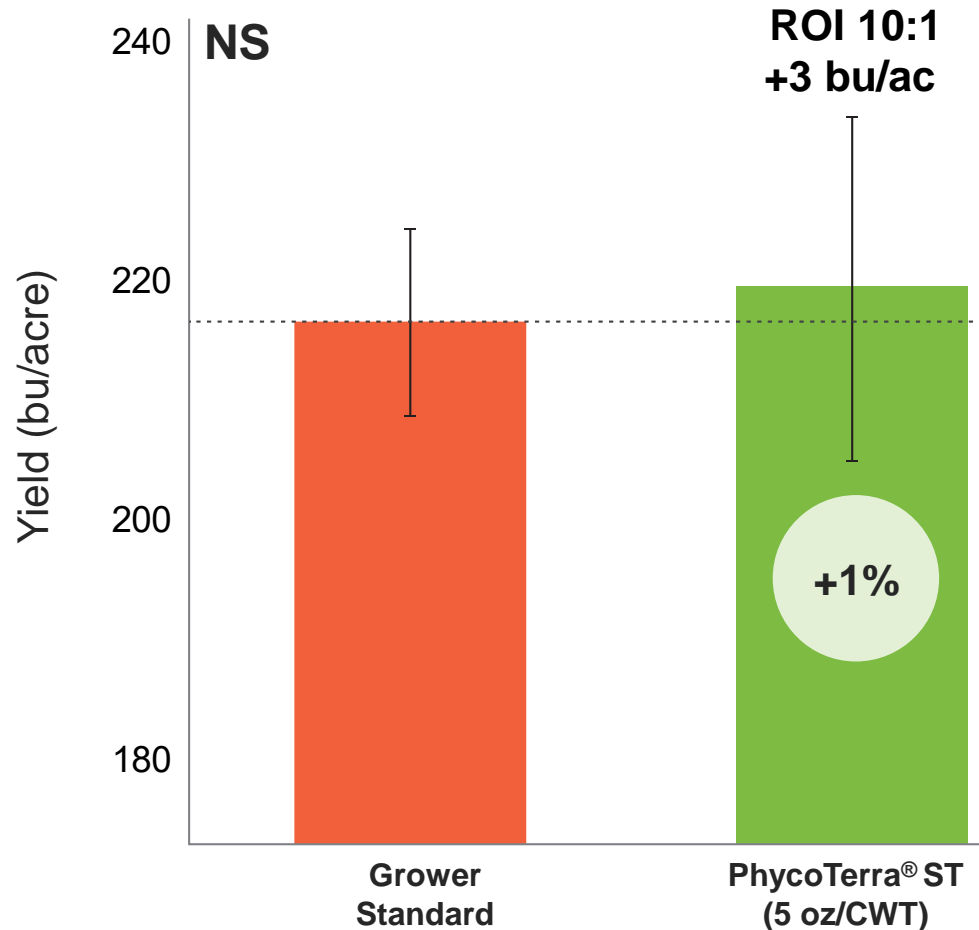
vs. Grower Standard	Difference	Percent Change
Yield (bu/acre)	+12.5	+9.2%
Protein (%)	+0.2	+2.0
Test Weight (lb/bu)	+0.4	+1.9%





# Corn

Trial Location: *Ravenna, NE*



## SOIL TYPE:

Silt Loam

## ORGANIC MATTER:

2.0%

## VARIETY:

NK1082-3330

## TRIAL INFO:

3<sup>rd</sup> Party CRO

## PLANTING/HARVEST INFO:

Unknown

## APPLICATION RATE:

PhycoTerra<sup>®</sup> ST (5 fl oz/CWT)

## APPLICATION TIMING:

PhycoTerra<sup>®</sup> ST applied on top of standard seed treatment

Standard fungicide & insecticide seed treatments were applied in all plots

\*Error bars represent 90% Confidence Interval, Significance tested using LSM means Dunnett ( $\alpha=0.1$ )



# Corn

Trial Location: *Ravenna, NE*



**PhycoTerra® ST  
(5 oz/CWT)**

**Grower  
Standard**

**SOIL TYPE:**

Silt Loam

**APPLICATION RATE:**

PhycoTerra® ST (5 fl oz/CWT)

**ORGANIC MATTER:**

2.0%

**APPLICATION TIMING:**

PhycoTerra® ST applied on top of standard seed treatment

**VARIETY:**

NK1082-3330

**TRIAL INFO:**

3<sup>rd</sup> Party CRO

Standard fungicide & insecticide seed treatments were applied in all plots

**PLANTING/HARVEST INFO:**

Unknown

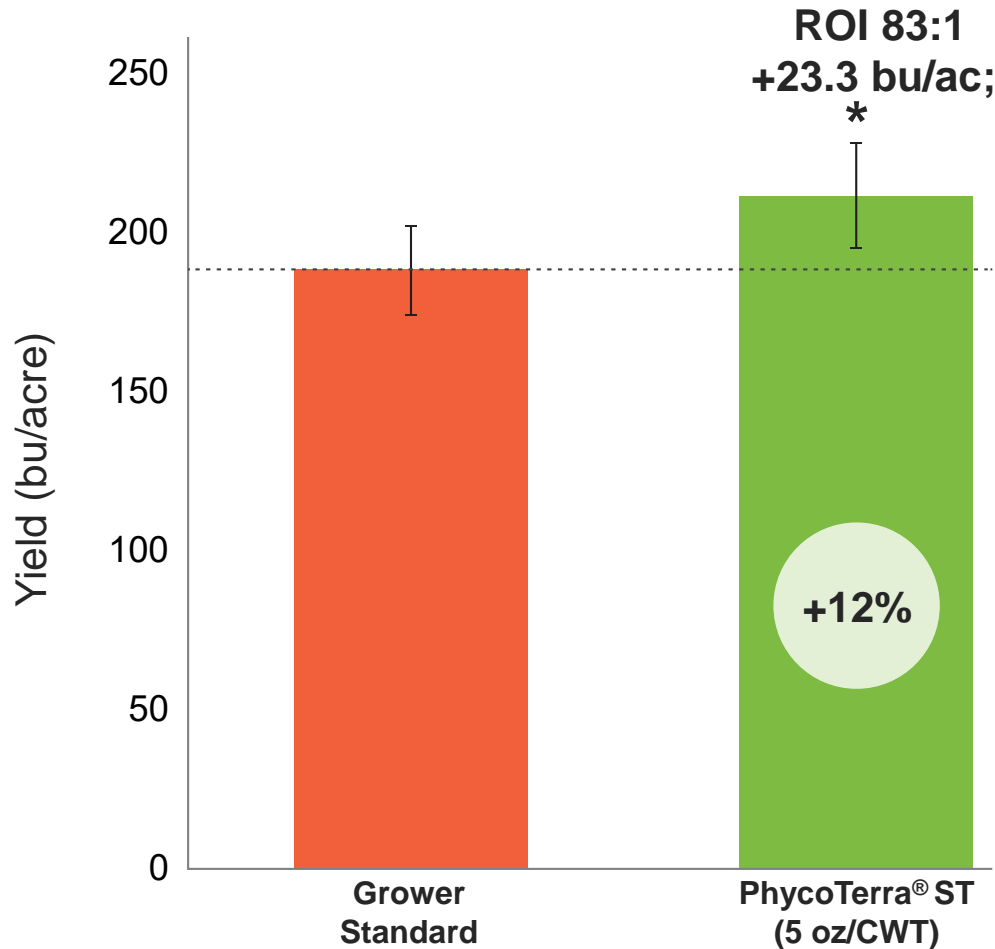
*\*Error bars represent 90% Confidence Interval, Significance tested using LSMeans Dunnett ( $\alpha=0.1$ )*





# Corn

Trial Location: Tyndall, SD



## SOIL TYPE:

Loam

## ORGANIC MATTER:

3.0%

## VARIETY:

NK1082-3330

## TRIAL INFO:

3<sup>rd</sup> Party CRO

## PLANTING/HARVEST INFO:

Unknown

## APPLICATION RATE:

PhycoTerra<sup>®</sup> ST (5 fl oz/CWT)

## APPLICATION TIMING:

PhycoTerra<sup>®</sup> ST applied on top of standard seed treatment

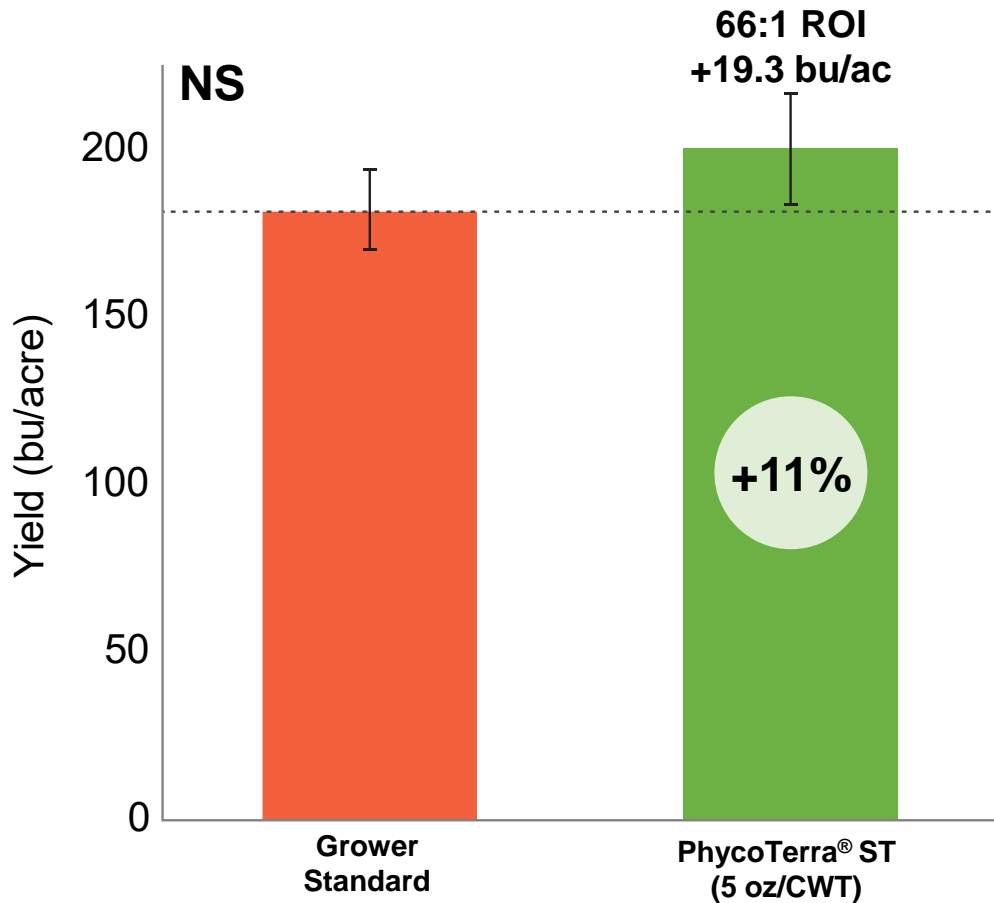
Standard fungicide & insecticide seed treatments were applied in all plots

\*Error bars represent 90% Confidence Interval, Significance tested using LSMeans Dunnett ( $\alpha=0.1$ )



# Corn

Trial Location: *Frankfort, IN*



**SOIL TYPE:**  
Clay Loam

**ORGANIC MATTER:**  
3.1%

**VARIETY:**  
DKC 57-97 RIB

**TRIAL INFO:**  
3<sup>rd</sup> Party CRO

**PLANTING/HARVEST INFO:**  
Unknown

**APPLICATION RATE:**  
PhycoTerra<sup>®</sup> ST (5 fl oz/CWT)

**APPLICATION TIMING:**  
PhycoTerra<sup>®</sup> ST applied on top of standard seed treatment

PhycoTerra<sup>®</sup> applied at side dress at v6.

\*Error bars represent 90% Confidence Interval, Significance tested using LSMeans Dunnett ( $\alpha=0.1$ )



# Corn

Trial Location: **Unknown**

Metrics	Grower Standard	PhycoTerra® ST
Yield (bu/acre)	198.8	209.0
Yield Difference (bu/acre)	-	+10.2 (+4.9%)
Additional Value (\$/acre)	-	\$39.98
<b>ROI</b>	-	<b>83:1</b>

## SOIL TYPE:

Silt Loam/Silty Clay

## APPLICATION RATE:

PhycoTerra® ST (2 fl oz/CWT)

## ORGANIC MATTER:

Unknown

## APPLICATION TIMING:

PhycoTerra® ST applied on top of standard seed treatment

## VARIETY:

DKC 47-54 RIB

## TRIAL INFO:

3<sup>rd</sup> Party CRO

## PLANTING/HARVEST INFO:

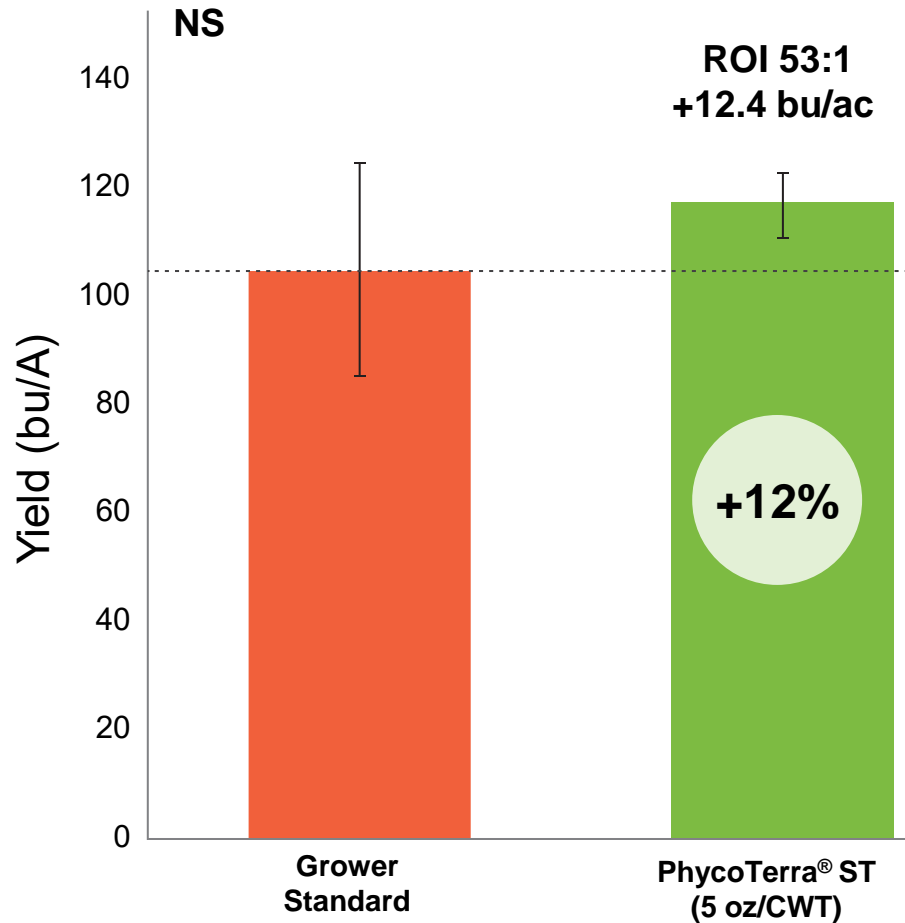
Unknown

\*Error bars represent 90% Confidence Interval, Significance tested using LSMeans Dunnett ( $\alpha=0.1$ )



# Corn

Trial Location: **Carrington, ND**



## SOIL TYPE:

Loam

## APPLICATION RATE:

PhycoTerra<sup>®</sup> ST (5 fl oz/CWT)

## ORGANIC MATTER:

3.0%

## APPLICATION TIMING:

PhycoTerra<sup>®</sup> ST applied on top of standard seed treatment.

## VARIETY:

Unknown

## TRIAL INFO:

University Trial

## PLANTING/HARVEST INFO:

April – October 2020

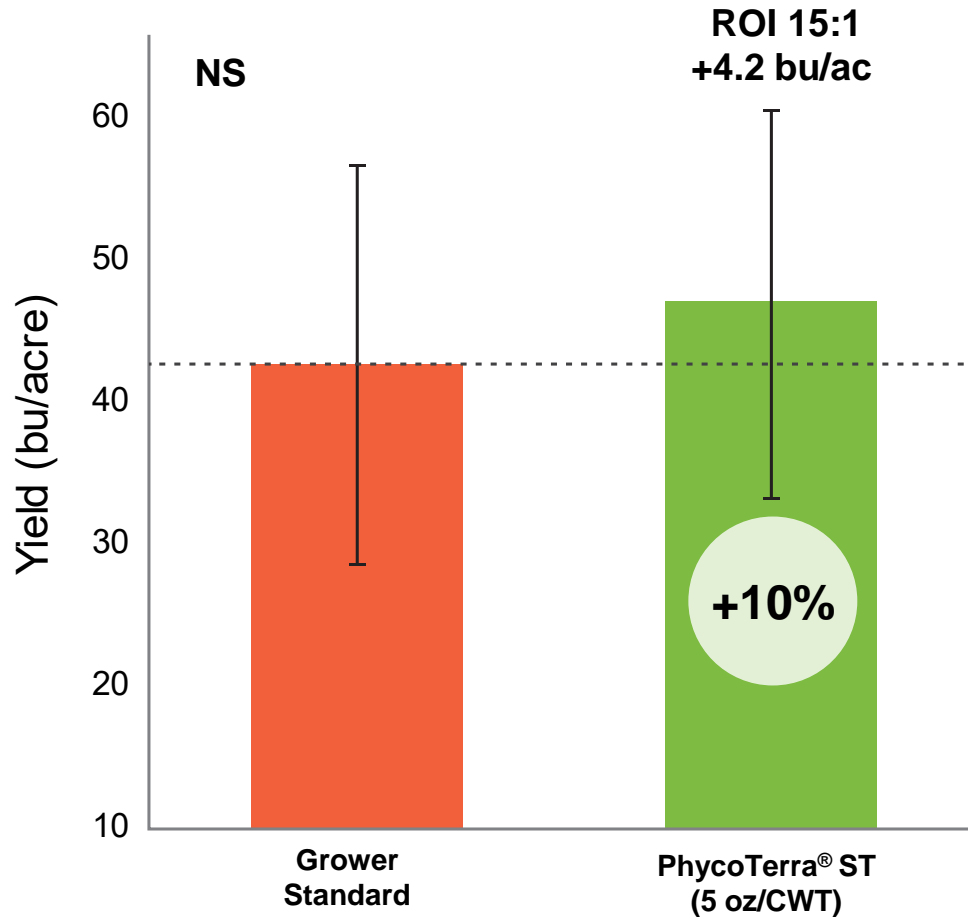
*All seeds were treated with a mixture of prothioconazole, metalaxyl, fluoxastrobin, clothianidin, a Bacillus firmus strain, and a mycorrhizae promoter prior to planting.*

\*Error bars represent 90% Confidence Interval, Significance tested using LSMeans Dunnett ( $\alpha=0.1$ )



# Corn – Derecho Impact

Trial Location: *Perry, IA*



## SOIL TYPE:

Wadena Loam

## APPLICATION RATE:

PhycoTerra<sup>®</sup> ST (5 fl oz/CWT)

## ORGANIC MATTER:

1.7%

## APPLICATION TIMING:

PhycoTerra<sup>®</sup> ST applied on top of standard seed treatment.

## VARIETY:

Beck's 5113AM

## TRIAL INFO:

3<sup>rd</sup> Party CRO

## PLANTING/HARVEST INFO:

June – October 2020

*All plots included a standard seed treatment of sedaxane, fludioxonil, thiamethoxam, and mfenoxam.*

*\*Error bars represent 90% Confidence Interval, Significance tested using LSMmeans Dunnett ( $\alpha=0.1$ )*